

U.S.S.N. 10/757,616  
Attorney Docket No.: MBZ-001CN

Group Art Unit: 1637  
Examiner: Heather Calamita

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of the Claims:**

Claims 1-84 (Canceled).

85. (New) A method for identifying small molecules relevant to amyotrophic lateral sclerosis, comprising:

obtaining a small molecule profile of a sample from a subject suffering from amyotrophic lateral sclerosis; and

identifying the small molecules relevant to amyotrophic lateral sclerosis using the small molecule profile, wherein said small molecule profile is obtained using one or more techniques which detect 50% or more of the small molecules in said sample.

86. (New) A method for identifying small molecules relevant to amyotrophic lateral sclerosis, comprising:

obtaining a small molecule profile of a subject suffering from amyotrophic lateral sclerosis; and

identifying the small molecules relevant to amyotrophic lateral sclerosis using the small molecule profile, wherein said small molecule profile comprises information regarding the presence of electrochemically active and electrochemically neutral small molecules.

87. (New) A method for identifying small molecules relevant to amyotrophic lateral sclerosis, comprising:

obtaining a small molecule profile of a subject suffering from amyotrophic lateral sclerosis; and

identifying the small molecules relevant to said nervous system disorder using the small molecule profile, wherein said small molecule profile comprises information regarding the presence of two or more types of small molecules selected from the group consisting of: sugars, fatty acids, amino acids, nucleotides, metabolites, and products of catabolism.

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88. (New) The method of any one of claims 85-87, wherein said subject is a human.

89. (New) The method of any one of claims 85-87, wherein said small molecule profiles are obtained from said subject's blood, spinal fluid, serum, cells, tissue, or cellular organelles.

90. (New) The method of any one of claims 85-87, wherein said small molecule profiles are obtained using one or more of the following: HPLC, TLC, electrochemical analysis, mass spectroscopy, refractive index spectroscopy (RI), Ultra-Violet spectroscopy (UV), fluorescent analysis, radiochemical analysis, Near-InfraRed spectroscopy (Near-IR), Nuclear Magnetic Resonance spectroscopy (NMR), and Light Scattering analysis (LS).